第12卷 第1期 昆虫学报 Vol. 12, No. 1
1963年2月 ACTA ENTOMOLOGICA SINICA February, 1963

云南生物考察报告
（鞘翅目，牙甲科）

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本篇为中、苏两国生物学工作者于1955—1957年在川、滇采得鞘翅目牙甲科标本的鉴定报告。有少数标本采自汉口及广州，也一并鉴定。本篇記載的牙甲科昆虫共13属26种1变种，其中新种4种。

这一次牙甲科的采集者有中、苏两国昆虫学工作者及采集人員。苏联方面有波波夫、布希克、伊凡諾夫、克雷乩諾夫斯基、孟恰茨基及邦菲洛夫；中国方面有王书永、刘大华、吳乐、周本寿、周彩云、洪广基、赵义、馬永貴、梁秋珍、臧令超、黃克仁、楊星池、葛鍾麟、蒲富基等。

所記种类的单一标本及新种、新亚种的正模标本及异模标本，均存中国科学院动物研究所。

Coelostoma vagum Orchymont

云南：西双版納，14头；景东，47头；潞西，1头。

Coelostoma sulcata, 新种（图1）

体长 5—6毫米，宽2.9—3.3毫米，形弯拱。体背漆黑，前胸背板微棕，腹面棕色較显。

头部背面平，刻点細密，刻点近唇基前緣者較細。唇基前緣微向后弯缺。上唇横闊，色較浅，披长毛，前緣內弯較深。复眼色棕紅，有些个体与头色相同。下顎鬚色棕，第二节最长大，近长卵形，第三节較短，末节較第三节稍长，但第二节短。頦横长方形，前部凹陷，后部及两側突起处有小刻点。

前胸背板横闊、隆拱、刻点与头部者相似。背板前緣及側緣有凸起的小鑲边；前緣中段极微向前弯凸，两側段斜向前伸，使全緣形成頗深的弯缺。前角圓，側緣弯凸。后緣較前緣寬，近平直。

小盾片长三角形，有微小刻点。

鞘翅較前胸背板长約2.5倍，刻点与前胸背板者相似。鞘縫紋前部不显，鞘翅基部与前胸后緣約等寬。

前胸腹面中部稍隆起。中胸腹面沿中綫隆起成片状。后胸腹面粗糙，披頗密短毛；中部呈瓜子形隆起，該隆起与后胸等长，不粗糙，除中后部外均披稀毛。

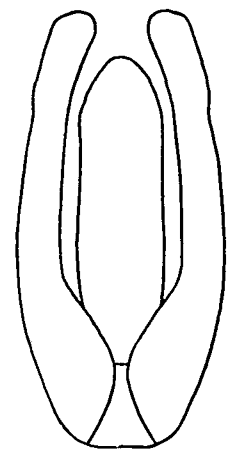


图1 *Coelostoma sulcata*, sp. n. ♂性外生殖器

本文于1961年11月27日收到。

前足腿节全部披短毛。中足腿节腹面有带毛刻点。后足腿节有細而稀的毛，或有不明显的刻点。各足脛节有頗大的短刺。跗节5节，前足跗节末节最长，中、后足跗节基节最长，各足跗节基部4节腹面披毛，前足者比較显著。爪纖細。

腹部腹板5节，粗糙，披毛。雄性外生殖器側叶端部微下弯；中叶舌状，末端尖，較側叶稍短，但較大，背面成槽沟。

正模标本♂ 云南：西双版納，1957. III. 17（洪广基）。

配模标本♀ 采集地点同正模标本。

副模标本1头 地点同正模标本；4头，云南：景东。

本种极似 *Coelostoma vagum* Orchym.，但唇基中部較平坦，前足跗节腹面披毛較少，前胸腹板前緣中央无短刺状突起。雄性外生殖器形状不同。

Dactylosternum hydrophiloides **(M'Leay)**

云南：景洪，35头；大勐龙，3头；景东，1头；小勐养，8头；元江，33头；西双版納，29头；广州，1头。

Dactylosternum vitalisi **Orchymont**

云南：西双版納，9头；景洪，5头。

Cercyon vicinalis **var.** ***vicinaloides*** **Orchymont**

湖北：汉口，1头。

Anacaena lancifera**，新种**（图2）

体长 2.4—2.7毫米，寬1.5—1.6毫米，体形弯拱。体色背面一般棕紅而至棕黑，有些个体色稍淡，腹面顏色与背面相似或稍淡。

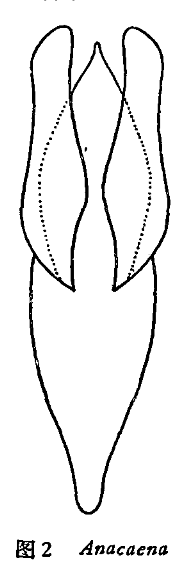


图2 *Anacaena lancifera*, sp. n. ♂性外生殖器

头部一般棕黑，有些个体黑色。背面基本上光滑，刻点甚小而疏，极不显著。口上縫闊V形。唇基前緣微弯缺。上唇前緣微弯缺，披毛頗长。复眼色深，稍向两旁突出。触角9节。下顎鬚淡棕，末前节最短小，末节长大，等于末前节約3倍。頦横闊，无显著刻点，前部凹陷。

前胸背板极横闊，其长度与头部长度約相等。有与头部背面相似的刻点，但一般較疏小。前緣中部微向前弯突，側段向前伸，使整个前緣形成頗深弯缺，头部基部藏入此弯缺內。前角圓。側緣微弯凸，几乎平直。后角闊圓。后緣向后弯突，中部伸突稍显，中部两旁微向前弯缺。



小盾片三角形，长度仅微大于基部。

鞘翅长于前胸板約3.5倍。有較大而清楚的刻点，在側旁的刻点更明显更大，鞘縫紋后部显。鞘翅基部約与前胸后緣等寬。

中胸腹板后部有較大的三角形，刺状隆起，該隆起較中足轉节稍大，其刺尖指向后端。后胸腹板中央低度隆起成三角形，两側披毛頗密。

各足腿节頗寬，前緣微弯突，后緣甚弯突；各腿节均披頗密短毛，仅末端光滑。脛节直，末端較大，尤以前足者显著；中、后足脛节較长于股节，尤以后足为甚；脛节外緣有刺，前足脛节近端部的刺尤长大。中、后足跗节第一节特短，第二节特长，尤以后足者为甚，显著地較长于第三、四节的共长。

腹部腹板末节后緣半圓形。雄性外生殖器側叶端部鈍圓而闊成叶状，其端部外緣稍

向外弯突；中叶較側叶短，长三角形，末端尖。

正模标本♂　四川峨眉山，1955. V. 23（楊星池）。

配模标本♀　四川峨眉山，1955. VI. 24（葛鍾麟）。

副模标本 7 头　四川峨眉山。

与 *A. yunnanensis* Orchym. 的区别在于本种的頦的前部全无隆起，后足腿节除末端外均披密毛及鞘翅刻点，远較头部者大，且側旁有較大刻点。

***Anacaena bushiki*, 新种**

体长　2.8 毫米，寬 1.7 毫米，体形弯拱。体色棕紅，腹面体色稍深。

本种与前种 *A. yunnanensis* 新种頗相似，两种重要区别如下，本种头部刻点較清楚，唇基前緣較平直，下顎鬚末节較长大，末节与末前节长度之比为 11:5，而在 *A. lancifera* 为 10:5。本种的前胸背板前緣較平直，后緣弯度較小。中胸腹板沿中央有較显著的纵隆脊，隆脊后面突起的后方有显著的白色毛（*A. lancifera* 无此毛）。本种鞘翅有隐約可見刻点組成的纵列（在 *A. lancifera* 一般观察不到，只有在折离体躯的鞘翅，借其透明可見到这类纵列刻点）。本种后足脛节刺毛显著，較粗而长。腹面披毛較长，頦有直立而粗的白毛（*A. lancifera* 的不明显）。

本种虽只有一♀虫标本，但基于上述的明显形态特征，仍可定为新种。

模式标本♀　云南：騰冲，1955. V. 10（布希克）。

本种以采集者布希克同志命名，謹表謝意。

***Laccobius binotatus* Orchymont**

云南：下关，1 头。

***Helochares anchoralis* Sharp**

云南：景洪，1 头；金平，1 头；小勐养，4 头；景东，3 头。

***Helochares crenatus* Régimbart**

云南：金平，1 头。

***Helochares lentus* Sharp**

云南：金平，1 ♀；潞西，1 ♂；河口，1 ♀；景东，1 ♀；景洪，1 ♂。

***Helochares neglectus* (Hope)**

云南：金平，1 ♂。

***Helochares pallens* (M'Leay)**

云南：怒江，1 ♂；河口，1 ♀。

***Enochrus fragitis* (Sharp)**

云南：金平，1 头；景东，2 头；屏边，1 头。

***Enochrus subsignatus* (Harold)**

湖北：汉口，1 ♂。

***Sternolophus inconspicuus* (Nietner)**

云南：景洪，3 头；金平，9 头；河口，3 头；西双版納，8 头；小勐养，1 头；景东，25 头。

***Sternolophus rufipes* (Fabr.)**

云南：景洪，3 头；金平，10 头；昆明，2 头；景东，78 头；屏边，3 头；河口，1 头；西双版納，4 头；小勐养，133 头；思茅，6 头。

***Neohydrophilus spinicollis* (Eschscholtz)**

云南：景东，2 头。

Hydrous acuminatus **(Motschulsky)**

云南：昆明，1 头；景东，6 头。

Hydrous cashmirensis **(Redtenbacher)**

云南：景东，1 头。

Hydrous hastatus **(Herbst)**

云南：保山，1 头；西双版納，1 头；小勐养，1 头。

***Amphiops yunnanensis*, 新种**

体长 4.5 毫米，寬 2.2 毫米，体形隆拱。体色深棕，头、前胸背板及腹面色稍深。

头部刻点頗深，前密后疏，刻点一般比点間間隙大，前部后方中央者較疏。头部前部（复眼前）中央稍隆起。唇基前緣有小隆边，中段平直，側段向后斜出，极微弯拱。眼黃褐。下顎鬚末节与第二节均等长。頦横闊，前部凹凸不平。

前胸背板刻点与头部者約等大，但較疏。背板前緣弯缺深，中央显著向前弯拱；側緣极微弯拱，几近平直；前緣及側緣有小隆边；后緣极度向后弯拱。

小盾片长三角形，有如前胸背板的刻点。

鞘翅极隆拱，刻点行列由大刻点組成，刻点行列間有大小刻点，行間的大刻点大小与組行列者約相等，小刻点与前胸背板者約相等。背面以小刻点較多，越近側方大刻点越多。

前胸腹板呈脊状隆起。中胸腹板前部中央有小片状隆起。中足基节間前方及两側（沿中足基节窝內緣）有隆脊，前方条状隆起前部中央有三角状小突起（卽片状隆起的基部）。

前、中足腿节基端披白毛极密；后足腿节基端刻点显著。中足脛节外緣披黃色长泳毛。前足跗节末节长于前数节共长；中足跗节末节略短于前数节共长；后足跗节末节約等长于第三、四节共长。

腹部腹板披疏短毛，第一节中央有脊状纵隆。

正模标本♀ 云南小勐养，1957. V. 4（梁秋珍）。

本种与 *Amphiops annamita* Reg., *A. mater* Sharp 及 *A. pedestris varians* Orchym. 相似，与最后一种尤近似。但与該三种之别在于本种前胸背板刻点較小，背板前緣中段弯拱較显著，背板两側伸出較长。鞘翅側旁大刻点較多，小刻点較小。与 *A. pedestris varians* 之别，除上述不同外，本种唇基前緣平直的中段較闊。基于上述显著差别，故本种虽只有单一雌虫，仍可定为新种。

Berosus pulchellus **M'Leay**

云南：景洪，1 头。

Berosus fairmarei **Zaitzev**

云南：金平，3 头；景东，41 头；景洪，1 头；小勐养，32 头。

Berosus indicus **Motschulsky**

云南：屏边，1 头；景东，14 头；小勐养，47 头。

Berosus lewisius **Sharp**

云南：金平，1 头；昆明，7 头；景东，56 头；思茅，7 头；元江，1 头。

Régimbartia attenuata **(Fabr.)**

云南：小勐养，88 头。

RESULTS OF THE ZOOLOGICO-BOTANICAL EXPEDITION TO SOUTHWEST CHINA, 1955—1957

(COLEOPTERA, HYDROPHILIDAE)

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A series of water-scavernger beetles was collected by the Chinese and Soviet Scientists in Southwest China in the years 1955—1957. This series comprises 26 species and 1 variety, of which 4 species are new to science; they are characterized as follows.

***Coelostoma sulcata*, sp. n.** (fig. 1)

Size, 5—6 mm. long, 2.9—3.3 mm. wide. Oval. Pitch black.

Dorsal surface minutely and densely punctulated. Head with clypeus slightly emarginate anteriorly. Labrum transverse, with long hairs, moderately deeply emarginate anteriorly. Second segments of maxillary palpi longest and biggest, ultimate segments slightly shorter but longer than third segments. Mentum rectangular, anterior area depressed, posterior and lateral areas minutely punctulated. Pronotum with moderately deeply emarginated anterior margin, middle portion of which slightly arched. Prosternum slightly arched in the middle. Mesosternum with erect lamella in the middle. Poststernum coarse, pubescent, middle area glabrous, somewhat elevated. Basal tarsal segments with ventral pubescence which is more prominent in the anterior tarsi. Abdomen with 5 pubescent and coarse sterna. Male genitalia with lateral lobes slightly curved distally; median lobe tongue-like, shorter than lateral lobes but bigger, dorsal surface grooved.

Holotype, 1 ♂ from Sisongpanna, Yunnan Province, March 17, 1957, collected by Hung Kwang-chi. Allotype, 1 ♀ with same locality and date. Paratypes, 1 specimen with the same locality, 4 specimens from Chingtung, Yunnan province.

This species resembles *C. vagum* Orchym., but is separable by the less elevated clypeus, the sparser pubescence on the anterior tarsi and the absence of short spinose process in the middle of the anterior margin. The male genitalia of the present species is quite different from its allied species.

***Anacaena lancifera*, sp. n.** (fig. 2)

Size, 2.4—2.7 mm. long, 1.5—1.6 mm. wide. Oval. Reddish brown to dark brown.

Head with deeper color and indistinctly punctulated. Clypeus with anterior margin slightly emarginate. Antennae 9-segmented. Ultimate segments of maxillary palpi about three times longer than the penultimate segments. Mentum without apparent punctures with anterior area depressed. Pronotum very transverse, subequal to the head in length, punctuation like that on the head, but sparser and smaller; anterior margin with median section slightly arched; posterior margin arched. Elytra with larger more distinct punctures and those in the lateral area more prominent and still larger. Mesosternum of thorax with moderately large triangular spine-like outgrowth which is bigger than the middle coxae. Metasternum of thorax with triangular depressed median area, lateral areas

moderately thickly pubescent. Femora moderately densely pubescent with glabrous distal extremities. Second segments of posterior tarsi apparently longer than the total length of 3rd and 4th segments together. Lateral lobes of male genitalia with distal ends rounded and broad, lobe-like; median lobe short, in the shape of a spear-head.

Holotype, 1 ♂ from Omeishan, Szechuan Province, June 23, 1955, collected by Yang Sing-chi. Allotype, 1 ♀ with same locality, June 24, 1955, collected by Ko Chung-lin. Paratypes, 7 specimens with same locality.

The present species is separable from its allied species *A. yunnanensis* Orchym. by the absence of any outgrowth on the mentum anteriorly, the presence of dense pubescence on the posterior femora, the punctures on the elytra much larger than those on the head and the presence of larger punctures in the lateral areas of elytra.

Anacaena bushiki **sp. n.**

Size, 28 mm. long, 1.7 mm. wide. Oval. Reddish brown.

The present species resembles *A. lancifera,* sp. n., but separable from it by following characters. Punctures on the head more distinct. Anterior margin of clypeus more straight. Ultimate segments of maxillary palpi longer and larger. Anterior margin of pronotum more straight, while posterior margin less arched. Mesosternum with a longitudinal carina along the middle, posterior surface of which with prominent hairs. Elytra with visible longitudinal punctural series. Posterior tibiae with longer and bigger thorns. Ventral surface with apparently longer hairs and mentum with erect white hairs.

Holotype, 1 ♀ from Tengchung, Yunnan Province, May 10, 1955, collected by Bushik.

Amphiops yunnanensis, **sp. n.**

Size, 4.5 mm. long, 2.2 mm. wide. Oval. Deep brown.

Punctures of head rather deep and large and denser in the anterior area. Middle section of anterior margin of clypeus straight. Maxillary palpi with ultimate segments subequal to second segments in length. Mentum transverse with anterior area rough. Pronotum with punctures as those on the head, but sparser; anterior margin with middle section arched. Scutellum punctulated as pronotum. Elytra with punctural series composed of moderately large points; interstices with both small and large punctures which are larger near the lateral areas. Prosternum carinate along the middle. Mesosternum with a lamina anteriorly, a transverse ridge between middle coxae and this ridge continuous with those of the interior rims of middle coxal cavities. Anterior and middle femora with basal ends densely pubescent. Middle tibiae with fringes of long hairs. Distal segments of anterior tarsi longer than the total length of previous segments together, that of middle tarsus somewhat shorter and that of posterior tarsus subequal to the total length of 3rd and 4th segments together. Abdominal sterna with sparse short hairs, basal sternum longitudinally carinate medially.

Holotype, 1 ♀ from Siaomanyan, Yunnan Province, collected by Liang Chiu-chin.

The present species can be distinguished from *A. annamita* Rég., *A. meter* Sharp and *A. pedestris varians* Orchym. by the smaller punctures on pronotum, prominent arching of the anterior margin of pronotum, longer extensions of lateral areas of pronotum and the presence of numerous larger punctures on the lateral areas of elytra.